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08/877,728	06/18/1997	HIROTO OKAWARA	35.C12127	6347

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EXAMINER

NGUYEN, LUONG TRUNG

ART UNIT	PAPER NUMBER
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2612

DATE MAILED: 12/31/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

08/877,728

Applicant(s)

OKAWARA, HIROTO

Examiner

LUONG T NGUYEN

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 September 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7,9,10,13-28,31-33,35-37,40-45 and 47-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7,9,10,13-28,31-33,35-37,40-45 and 47-50 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on 9/22/2003 have been fully considered but they are not persuasive.

In re pages 20-21, Applicant argues that Kawanami and Shimizu patents fail to disclose or suggest the feature of a camera that includes the claimed motion direction setting means including a display means to be used for setting of menu items.

In response, regarding claim 1, Applicant amended claim 1 with the limitation "wherein said motion direction setting means arranged in said camera body comprises (iii) display means for displaying an image picked up by said image pickup apparatus" and "setting means for selecting a desired setting item among a plurality of items of the predetermined menu displayed on said display means by said menu function control unit." The examiner considers that claim 1 as amended still do^{es} not distinguish from Kawanami patent in view of Shimizu patent. Kawanami discloses motion direction setting means as selection means 63, which is provided in on the camera body 53 for deciding the driving direction of zoom lens unit 52 (figure 5, column 5, lines 50-56); and display means disclosed as display device 21, which is provided in camera body 3 and allows the operator to visually know the state of each of various control actions of the camera (figure 2, column 3, lines 10-25). Kawanami does not disclose that the menu setting means is operated by the user and does not disclose a setting means for selecting a desired setting item among a plurality of items of the predetermined menu displayed on said display means by

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said menu function control unit and setting a condition regarding the motion direction of the lens unit; and displaying an image picked up by said image pickup means. However, this feature is taught by Shimizu. Shimizu discloses display 62 for displaying an image picked up by image sensor 2 (figure 1, column 4, lines 31-38). And Shimizu discloses a menu displayed on a display screen as a setting means to permit a user of a camera to operate thereupon to select various camera operating conditions from among a plurality of items displayed on a predetermined menu, such as the speed at which the focal length of the camera lens is moved when a zooming operation is performed (column 5, lines 36-46). Using a displayed menu for selecting a camera's operating settings makes the camera easier to operate by reducing the number of operation switches (column 1, lines 18-28; column 1, line 65 through column 2, line 3).

In re page 21, Applicants argue that the Kawanami patent fails to disclose or suggest the claimed relationship between holding a response characteristic information of a lens part and attaching/removing thereof.

In response, regarding claim 14, Applicants amended claim 14 with the limitation "storing means, provided in said camera part, for storing information of the response characteristic so that said camera part can hold the selected response characteristic throughout attaching/removing of said lens part." The examiner considers that claim 14 as amended still does not distinguish from Kawanami patent. Kawanami (Embodiment 2, figure 5) do not explicitly disclose "storing means, provided in said camera part, for storing information of the response characteristic so that said camera part can hold the selected response characteristic throughout attaching/removing of said lens part." However, Kawanami (Embodiment 1, figures 1-2)

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disclose an EEPROM, provided in camera body 3, to store data and prevent data of various control actions from being erased even when power supply to camera is cut off (column 3, lines 10-25). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device in Kawanami (Embodiment 2, figure 5) by the teaching of Kawanami (Embodiment 1, figures 1-2) to store data of control actions in an EEPROM. This prevent data of various control actions from being erased even when power supply to camera is cut off (column 3, lines 10-25).

In re pages 21-22, Applicant argues that Takahashi and Haraguchi patents fail to teach the feature of the invention, which inhibits performing of stop control of a lens group during a predetermined period when stop of rotation of the ring member is detected, and continue movement of the lens group when the rotation of the ring member is detected.

In response, regarding claim 42, Applicant amended claim 42 with the limitation "inhibition means for inhibiting said control means from performing the stop control during a predetermined period when said detection means detects a stop of rotation of the ring member, and for causing said control means to continue movement of said magnification lens group when said detection means detects rotation of said ring member." The examiner considers that claim 42 as amended still do not distinguish from Takahashi patent in view of Haraguchi et al. patent. Haraguchi et al. disclose by having zoom motor 5 continue to rotate in the reverse direction for t msec after detection of POS=9, and by thereafter rotating motor 5 in the forward direction, motor 5 can be stopped precisely at POS=A under the condition that backlash on the forward rotation side is removed (column 23, line 58 through column 24, line 9).

In re pages 22-23, Applicant argues that Takahashi fails to disclose or suggest the feature where motion control is based on the changed sensitivity, as disclosed and claimed in the present application.

In response, regarding claim 44, the Applicant amended claim 44 with the claim limitation "change means for changing a sensitivity of the motion/stop control of said control means relative to a detection result of said detection means so that said control does not effect the motion control until an amount of rotation of said ring member, corresponding to the changed sensitivity, is detected by said detection means." The Examiner considers that the claim as amended still do^{es} not distinguish over Takahashi patent. Takahashi discloses that the rotation speed of the PZ motor 34 will be changed so as to properly adjust the zooming speed (column 10, lines 1-11).

In re page 23, Applicant argues that Sato patent fails to disclose or suggest the feature of automatically changes a sensitivity of motion of a lens relative to a change amount of a rotation of a ring member in accordance with a photographing state (see, e.g., Fig. 22).

In response, regarding claim 48, Applicants amended claim 48 with the limitation "control means for controlling said lens control means so as to automatically change a sensitivity of the motion of the magnification lens relative to a detection result of said detection means in accordance with a photographing state." The Examiner considers that Sato et al. disclose the user can set a power zoom operation (column 5, lines 10-19, column 7, lines 19-26, column 8, lines 31-46). And the court held that broadly providing an automatic or mechanical means to

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replace a manual activity which accomplished the same result is not sufficient to distinguish over the prior art. *In re Venner*, 262 F.2d 91, 95, 120 USPQ 193, 194 (CCPA 1958). Therefore, Sato et al. still read on claim 48.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 44-45, 47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 44 (line 11) recited the limitation "the motion control" is not clear because it is not known ^{whether} this limitation ^{refers} is referred to the limitation "motion/sop control of the magnification lens group" recited in line 8 or the limitation "motion/sop control of said control means" recited in line 9.

Claims 45, 47 are rejected as being dependent on claim 44.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 44-45 and 47 are rejected under 35 U.S.C. 102(b) as being anticipated by

Takahashi (US 5,159,370).

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Regarding claim 44, Takahashi discloses an image pickup apparatus comprising a ring member (51) disposed concentrically about a lens optical axis of a lens unit, a detection means for detecting a change amount of rotation of the ring member (column 9, lines 1-14), a control means for determining motion direction and speed of a magnification lens group in accordance with an output of the detection means and performing motion/stop control of the magnification lens group along the optical axis (column 9, lines 15-49), and a change means for changing a sensitivity motion/stop control of said control means relative to a detection result of said detection means (column 9, lines 21-29) so that said control does not effect the motion control until an amount of rotation of said ring member, corresponding to the changed sensitivity, is detected by said detection means (column 10, lines 1-11).

Regarding claim 45, Takahashi discloses that the lens group is removably and exchangeably mounted on a main body of the image pickup apparatus (column 2, line 46).

Regarding claim 47, Takahashi discloses that the change means changes the motion speed of the magnification lens group relative to an output of the detection means (column 9, lines 21-29).

6. Claims 48, 50 are rejected under 35 U.S.C. 102(b) as being anticipated by Sato et al. (US 5,648,836).

Regarding claim 48, Sato et al. disclose an image pickup apparatus comprising a ring member (1) disposed concentrically about a lens optical axis (figure 1), detection means (2) for

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detecting a change amount of a rotation of the ring member, lens control means (CPU 5) for determining motion direction and speed of a magnification lens group in accordance with an output from the detection means and performing motion/stop control of the magnification lens group along the optical axis (column 4, lines 25-41), and control means for controlling said lens control means so as to change a sensitivity of the motion of the magnification lens group relative to a detection result of the detection means in accordance with a photographing state (column 5, lines 10-19; column 7, lines 19-26; column 8, lines 31-46).

The court held that broadly providing an automatic or mechanical means to replace a manual activity which accomplished the same result is not sufficient to distinguish over the prior art. *In re Venner*, 262 F.2d 91, 95, 120 USPQ 193, 194 (CCPA 1958).

Regarding claim 50, Sato et al. disclose that the control means changes the motion speed of the magnification lens group relative to an output of the detection means (column 7, lines 19-26).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1-7 and 9-10, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawanami (US 5,278,601) in view of Shimizu (US 5,485,200).

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Regarding claim 1, Kawanami disclose an image pickup apparatus having a camera body (3, figure 3) and a lens unit (15, figure 3), comprising a ring member (51, figure 5) for driving a lens (52); a detection means (55, 56) for detecting a change amount of rotation of the ring member; a control means (59) arranged in the lens unit for performing motion/stop control of the lens group along an optical axis in accordance with a detection result by the detection means; and motion direction setting means (63) providing in camera body for a user to set a desired motion direction of the lens group relative to the rotation direction ring member, wherein the motion direction setting means arranged in said camera body comprises character display means, menu setting means, display means (21), a menu function control unit for controlling the character display means in accordance with the operation state of the menu setting means, and for displaying a predetermined menu on a display screen of the display means (column 3, lines 15-17).

Kawanami does not disclose that the menu setting means is operated by the user and does not disclose setting means for selecting a desired setting item among a plurality of items of the predetermined menu displayed on said display means by said menu function control unit and setting a condition regarding the motion direction of the lens unit; and displaying an image picked up by said image pickup means. However, Shimizu discloses display 62 for displaying an image picked up by image sensor 2 (figure 1, column 4, lines 31-38). And Shimizu discloses a menu displayed on a display screen as a setting means to permit a user of a camera to operate thereupon to select various camera operating conditions from among a plurality of items displayed on a predetermined menu, such as the speed at which the focal length of the camera lens is moved when a zooming operation is performed (column 5, lines 36-46). Using a

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displayed menu for selecting a camera's operating settings makes the camera easier to operate by reducing the number of operation switches (column 1, lines 18-28; column 1, line 65 through column 2, line 3). In view of the teaching in Shimizu, it would have been obvious to one of ordinary skill in the art at the time the invention was made to configure the menu of Kawanami so as to serve as a setting means operated upon by a user for selecting a desired setting time among a plurality of items displayed on the predetermined menu and setting a condition regarding the motion direction of the lens unit in order to reduce the number of operating switches and make the camera easier to use.

Regarding claim 2, Kawanami and Shimizu disclose that the lens group includes a magnification lens (Kawanami; 52) and the motion direction setting means comprises an operation switch (Kawanami; 63) capable of being operated by a user, and a change means (Kawanami; 64, 59) for changing the motion direction of the lens group relative to the rotation direction of the ring member in accordance with the operation of the operation switch (Kawanami; column 5, lines 20-65).

Regarding claim 3, Kawanami and Shimizu discloses that a lens unit is made removable relative to the main body of the image pickup apparatus (Kawanami; column 5, lines 25).

Regarding claim 4, Kawanami and Shimizu discloses that ring member is disposed concentrically about an optical axis of the lens group (Kawanami; figure 5).

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Regarding claim 5, Kawanami and Shimizu discloses that the lens group includes a magnification lens (Kawanami; 52) and the motion direction setting means comprises memory means (Kawanami; 64) for storing motion direction information of the lens group relative to the rotation of the ring member, the motion direction being given by a user (Kawanami; switch 63), and a change means (Kawanami; 64, 59) for changing the motion direction of lens group in accordance with the motion direction information stored in the memory means.

Regarding claim 6, Kawanami and Shimizu discloses that a lens unit is made removable relative to the main body of the image pickup apparatus (Kawanami; column 5, lines 25).

Regarding claims 7 and 13, Kawanami and Shimizu discloses that ring member is disposed concentrically about an optical axis of the lens group (Kawanami; figure 5).

Regarding claim 9, Kawanami and Shimizu discloses that a lens unit is made removable relative to the main body of the image pickup apparatus (Kawanami; column 5, lines 25).

Regarding claim 10, Kawanami and Shimizu discloses that ring member is disposed concentrically about an optical axis of the lens group (Kawanami; figure 5).

9. Claims 14, 17, 26, 40-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawanami US (5,278,601).

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Regarding claim 14, Kawanami (Embodiment 2, figure 5) discloses an image pickup apparatus having a camera part (camera body 53), a lens part (lens 40), magnification lens (zoom lens 52) and a ring member (zoom ring 51), comprising communication means (lens-camera communication 54); detection means (encoder 55) which detects a change amount of a rotation of the ring member for driving the lens part (column 5, lines 20-64); camera control means (camera microcomputer 64), provided in camera part, for selecting and determining a response characteristic between an output of said detection means and a motion of the magnification lens, and for transmitting the selected response characteristic (selecting means 63) to the lens part (column 5, lines 20-64); lens control means (lens microcomputer 59), provided in lens part, for receiving information concerning the selected response characteristic transmitted from said camera control means through said communication means, and for controlling the motion of said magnification lens in response to the operation of said ring member in accordance with the selected response characteristic (column 5, lines 20-64).

Kawanami (Embodiment 2, figure 5) fails to specifically disclose storing means, provided in said camera part, for storing information of the response characteristic so that said camera part can hold the selected response characteristic throughout attaching/removing of said lens part. However, Kawanami (Embodiment 1, figures 1-2) disclose an EEPROM, provided in camera body 3, to store data and prevent data of various control actions from being erased even when power supply to camera is cut off (column 3, lines 10-25). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device in Kawanami (Embodiment 2, figure 5) by the teaching of Kawanami (Embodiment 1,

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figures 1-2) to store data of control actions in an EEPROM. This prevent data of various control actions from being erased even when power supply to camera is cut off (column 3, lines 10-25).

As for claims 17 and 26, all the limitations are contained in claim 14, therefore, see Examiner's comment regarding claim 14.

Regarding claims 40 and 41, Kawanami discloses the ring member is disposed concentrically about the lens group (figures 3, 5).

10. Claims 15-16, 18-25, 27-28, 31-33, 35-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawanami US (5,278,601) in view of Sato et al. (US 5,648,836).

Regarding claim 15, Sato et al. fail to specifically disclose the plurality of characteristics of the camera control means include a first characteristic for controlling a motion amount of the magnification lens per unit rotation of the ring member to be constant and a second characteristic for controlling a motion speed of the magnification lens to be variable in accordance with a rotation speed of the ring member. However, Sato et al. disclose that the plurality of characteristics of the control means include a first characteristic for controlling a motion amount of the magnification lens per unit rotation of the ring member to be constant (column 5, lines 37-43) and a second characteristic for controlling a motion speed of the magnification lens to be variable in accordance with a rotation speed of the ring member (column 5, line 62 through column 6, line 10). Therefore, it would have been obvious to one of ordinary skill in the art at

the time the invention was made to modify the device in Kawanami by the teaching of Sato et al. in order to control the motion of magnification lens at a desired speed.

Regarding claim 16, Kawanami fails to specifically disclose the plurality of characteristics of the control means include a first characteristic for controlling a motion amount of the magnification lens per unit rotation of the ring member to become a first predetermined amount and a second characteristic for controlling a motion amount of the magnification lens per unit rotation of the ring member to become a second predetermined amount different from the first predetermined amount. However, Sato et al. disclose that the plurality of characteristics of the control means include a first characteristic for controlling a motion amount of the magnification lens per unit rotation of the ring member to become a first predetermined amount and a second characteristic for controlling a motion amount of the magnification lens per unit rotation of the ring member to become a second predetermined amount different from the first predetermined amount (column 6, lines 49-63). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device in Kawanami by the teaching of Sato et al. in order to control the motion of magnification lens at a desired speed.

As to claim 18, see Examiner's comments regarding claim 15.

As to claim 19, Kawanami discloses that the characteristic of the control means is changed in accordance with the state of an operation switch capable of being operated by a user (manual operation, column 1, lines 5-10).

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As to claim 20, Kawanami discloses that the characteristic of the control means is changed in accordance with information of the characteristic of the control means set by a user (manual operation, column 1, lines 5-10).

As to claim 21, Sato et al. disclose that the characteristic of the control means is changed in accordance with a photographing state (column 8, lines 31-46).

As to claims 22 and 24, see Examiner's comments regarding claim 16.

As to claims 23 and 25, see Examiner's comments regarding claim 19.

As to claim 27, see Examiner's comments regarding claim 15.

As to claim 28, see Examiner's comments regarding claim 16.

Regarding claim 31, Sato et al. disclose an operation switch capable of being operated upon by a user and change means for changing the characteristic of the control means in accordance with a state of the operation switch (column 5, lines 10-19; column 7, lines 19-26; column 8, lines 41-46).

Regarding claim 32, Sato et al. disclose that change means changes the characteristic of the control means in accordance with information of the characteristic of the control means set by a user (column 5, lines 10-19; column 7, lines 19-26; column 8, lines 41-46).

Regarding claim 33, Sato et al. disclose that change means changes the characteristic of the control means in accordance with a photographing state (column 8, lines 31-46).

As to claim 35, see Examiner's comments regarding claim 31.

As to claim 36, see Examiner's comments regarding claim 32.

As to claim 37, see Examiner's comments regarding claim 33.

11. Claims 42-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi (US 5,159,370) in view of Haraguchi et al. (US 5,475,456).

Regarding claim 42, Takahashi discloses an image pickup apparatus comprising a ring member (51) disposed concentrically about a lens optical axis of a lens unit, a detection means for detecting a change amount of rotation of the ring member (column 9, lines 1-14), a control means for determining motion direction and speed of a magnification lens group in accordance with an output of the detection means and performing motion/stop control of the magnification lens group along the optical axis (column 9, lines 15-49).

Takahashi does not disclose an inhibition means for inhibiting said control means performing the stop control during a predetermined period when said detection means detects a stop of rotation of the ring member, and for causing said control means to continue movement of said magnification lens group when said detection means rotation of said ring member. However, Haraguchi et al. disclose inhibiting a magnification lens from stopping during a predetermined period after a stop command has been issued so that the lens can be stopped more precisely at a desired terminal position (column 23, line 58 through column 24, line 9). In view

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of the teaching in Haraguchi et al., it would have been obvious to one of ordinary skill in the art at the time of the invention to provide in Takahashi an inhibition means for inhibiting the magnification lens to stop during a predetermined period in the state that said detection means does not detect the amount of rotation in order to more precisely perform the stopping operation.

Regarding claim 43, Takahashi discloses that the lens unit is removably and exchangeably mounted on a main body of the image pickup apparatus (column 2, line 46).

12. Claim 49 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (US 5,648,836) in view of Kawanami (US 5,278,601).

Regarding claim 49, Sato et al. disclose all of the limitations except that of the lens unit being removably and exchangeably mounted. However, Kawanami teaches that such a design is well known in the art (column 1, lines 19-22). Enabling the lens unit of Sato et al. to be removably would clearly increase the utility of the device by permitting the use of other zoom lens units thereby providing a greater variety of zooming options. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to make the lens unit in Sato et al. removably mounted in order to increase the utility of the device by providing a greater variety of zooming options.

Conclusion

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13. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Luong Nguyen** whose telephone number is **(703) 308-9297**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Wendy Garber**, can be reach on **(703) 305-4929**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231


or faxed to:
(703) 872 - 9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

LN LN
12/26/2003


ANDREW FAILE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600